

# Cytometer Performance Report

**Cytometer:** FACSCantoII  
**Cytometer Name:** FACSCantoII  
**Serial Number:** V33896201821  
**Input Device:** Carousel  
**Tube Loaded Manually:** Yes  
**Cytometer Configuration:** Euroflow 3-laser, 8-color (4-2-2)

**User:** Administrator  
**Institution:** N/A  
**Software:** BD FACSDiva 8.0.2  
**Date:** 12/24/2020 09:03 AM  
**Cytometer Baseline:** 12/15/2020 11:39 AM  
**P/F:** Pass

## Setup Beads

**Bead Product:** CST Setup Beads **Part #:** 910859  
**Lot ID:** 91417 **Expiration Date:** 03/31/2021  
**Bead Lot Information:** Available

## Detector Settings

| Laser  | Detector | Parameter   | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|--------|----------|-------------|--------------|---------------------|---------------------------|-------------------------|-------------------------|----------------------|
| Blue   | FSC      | FSC         | 125000       | 123591              | -2                        | 3.29                    | 123635                  | 3.41                 |
| Blue   | F        | SSC         | 125000       | 122873              | -2                        | 4.37                    | 123742                  | 4.44                 |
| Blue   | E        | FITC        | 14203        | 13600               | -5                        | 3.53                    | 295                     | 15.17                |
| Blue   | D        | PE          | 25703        | 25085               | -3                        | 3.28                    | 544                     | 10.48                |
| Blue   | B        | PerCP-Cy5-5 | 42104        | 41013               | -3                        | 3.84                    | 911                     | 14.54                |
| Blue   | A        | PE-Cy7      | 34646        | 33942               | -3                        | 4.95                    | 487                     | 28.40                |
| Red    | C        | APC         | 49824        | 49250               | -2                        | 2.86                    | 1497                    | 11.41                |
| Red    | A        | APC-Cy7     | 39773        | 38634               | -3                        | 2.91                    | 725                     | 11.18                |
| Violet | B        | V450        | 7447         | 7075                | -5                        | 4.43                    | 397                     | 12.41                |
| Violet | A        | V500        | 31193        | 30064               | -4                        | 4.24                    | 685                     | 9.99                 |

## Detector Settings (Continued)

| Laser  | Detector | Parameter   | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr     | Br  | P/F  |
|--------|----------|-------------|-------------------------|----------------------|------|--------|--------|-----|------|
| Blue   | FSC      | FSC         | 21830                   | 3.52                 | 548  | -8     | N/A    | N/A | Pass |
| Blue   | F        | SSC         | 54011                   | 3.98                 | 510  | -2     | N/A    | N/A | Pass |
| Blue   | E        | FITC        | 54                      | 48.18                | 483  | -3     | 0.0379 | 0   | Pass |
| Blue   | D        | PE          | 107                     | 38.02                | 484  | -1     | 0.4388 | 307 | Pass |
| Blue   | B        | PerCP-Cy5-5 | 175                     | 34.75                | 574  | -3     | 0.0199 | 28  | Pass |
| Blue   | A        | PE-Cy7      | 115                     | 60.01                | 617  | -3     | 0.0233 | 0   | Pass |
| Red    | C        | APC         | 349                     | 23.23                | 566  | -1     | 0.0273 | 24  | Pass |
| Red    | A        | APC-Cy7     | 201                     | 23.14                | 541  | -3     | 0.0068 | 462 | Pass |
| Violet | B        | V450        | 87                      | 37.46                | 457  | 8      | 0.0437 | 944 | Pass |
| Violet | A        | V500        | 120                     | 26.23                | 475  | 8      | 0.0260 | 246 | Pass |

## Specifications

**PMTV Delta from baseline:** 50 (BD)  
**Violet Laser Primary Channel Bright Bead %Robust CV:** 6.00 (Recommended)  
**Blue Laser Primary Channel Bright Bead %Robust CV:** 6.00 (Recommended)  
**Red Laser Primary Channel Bright Bead %Robust CV:** 6.00 (Recommended)

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## Laser Settings

| Laser  | Power (mW) | Power Spec. (mW) | Current (mA) | Current Guidelines (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|--------|------------|------------------|--------------|-------------------------|------------------------|---------------------------------|---------------------|
| Violet | 59.57      | 47.97 - 71.95    | N/A          | N/A                     | -33.10                 | -32.86                          | 0.92                |
| Blue   | 20.37      | 16.27 - 24.41    | 1.27         | 0.99 - 1.49             | 0.00                   | 0.00                            | 1.37                |
| Red    | 22.89      | 15.99 - 23.99    | N/A          | N/A                     | 31.22                  | 31.45                           | 1.16                |

Window Extension: 7.00  
FSC Area Scaling Factor: 0.74

## Threshold

Threshold (FSC): 13259

## Fluidics

FACSFlow Pressure: 3.90  
Spec.: 3.80 - 4.00  
Sample Pressure: 3.60

Comments